InPort FIS Metadata Catalog

National Fisheries
Information System

InPort

Karen L. Sender and Janet Pappas
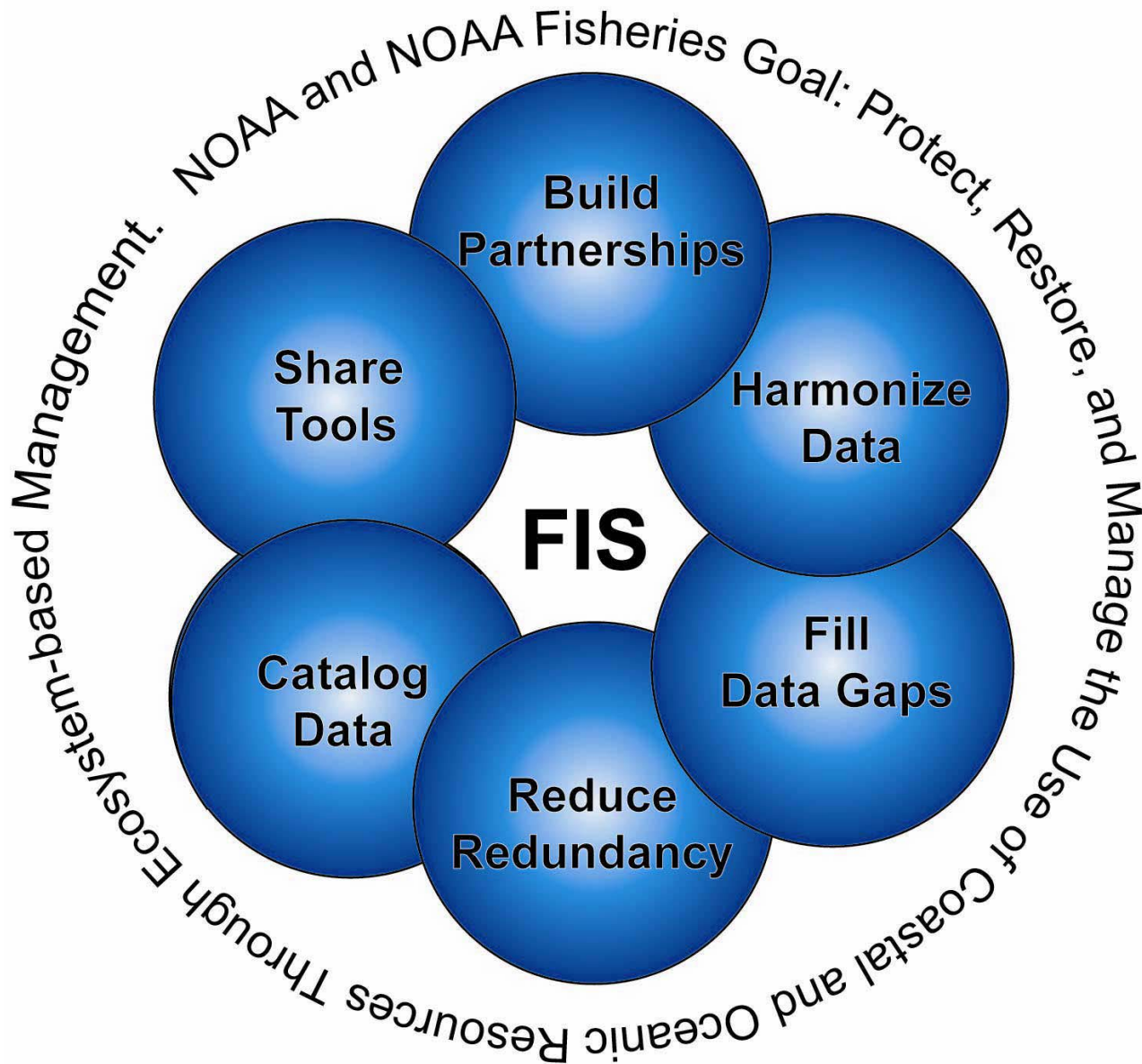NOAA Fisheries, Pacific Islands Fisheries Science Center

2nd Annual Fisheries Information System Meeting
Seattle, Washington – 17 August 2004

What, Why, How

- InPort will publish a catalog of fisheries data holdings.

- Fisheries management is changing. We need to share our data across regions.

- InPort will enable sharing of metadata.

- There will be three major catalog entry efforts in FY05, FY06, and FY07.
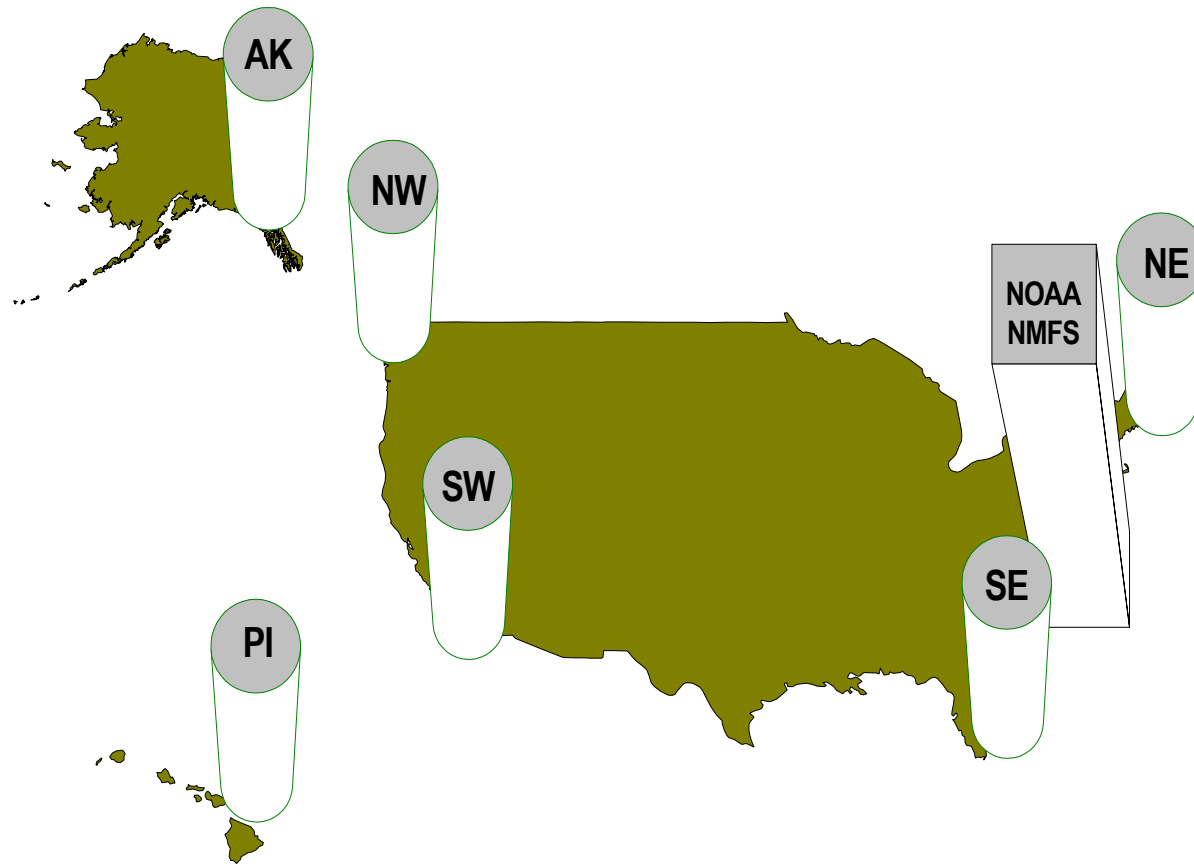
Supporting FIS Goals

InPort Web Demonstration

National Fisheries
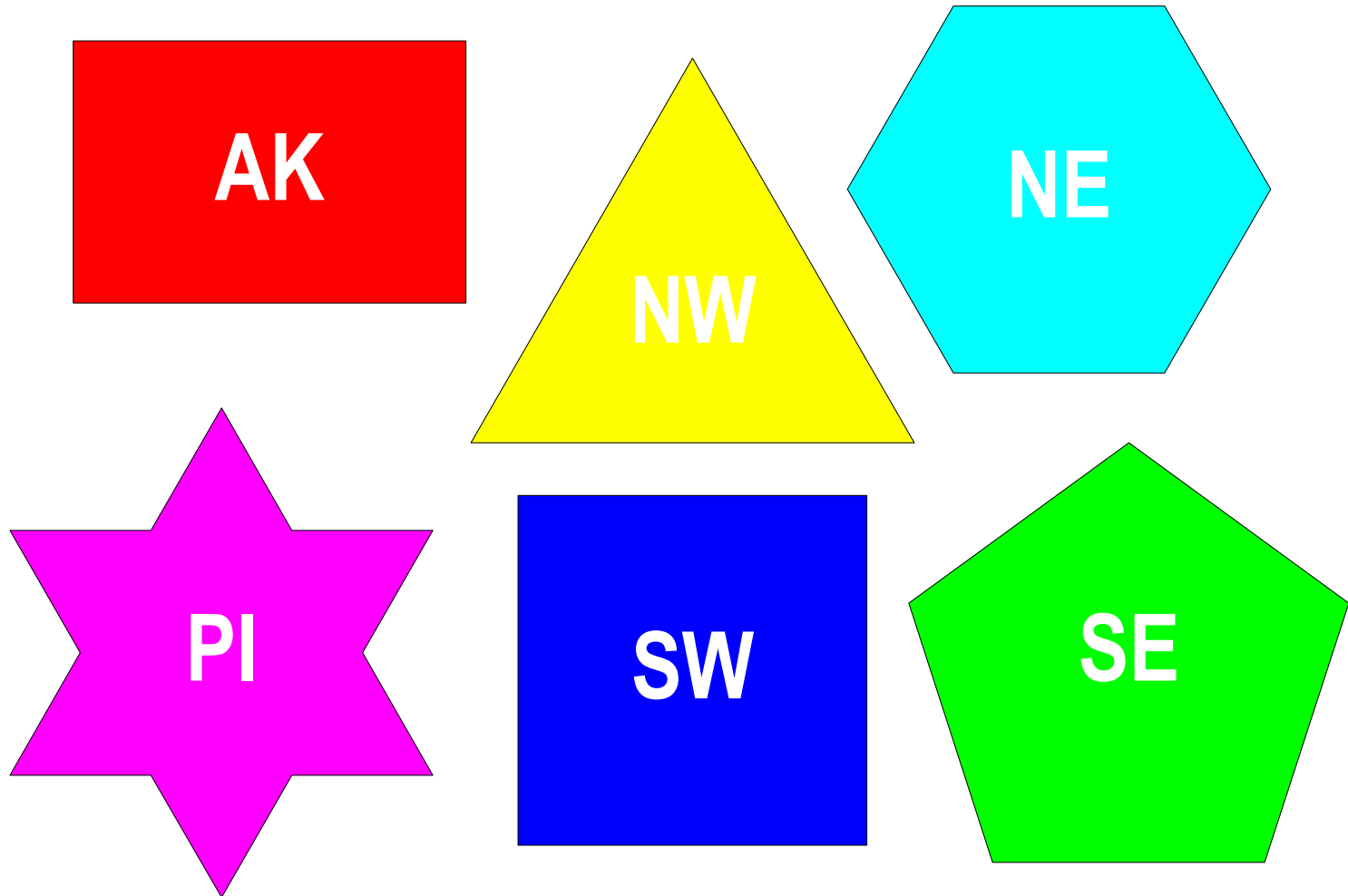Information System

InPort

Why We Must Change

- How we used to manage data and why

- Changes to fisheries management

- What's going to change

How We Used to Manage Data

Site & Species Specific Management Led To …

AK

NW

NE

PI

SW

SE

The new direction: Ecosystems Based Management & FIS

AK	**NW**	**NE**
PI	**SW**	**SE**

What do we need to know for FIS and Ecosystems Mgt?

- Projects, programs, data collections
- Databases, data sets, spreadsheets, files
- Tables and Columns
- Documents
- Reports
- Statistical Models
- Data Processing flow

Details We Need to Know

- Descriptions
- Keywords
- Time Frames
- Geographic Bounds
- References
- Related Catalog Items
- Usage Issues

- Documents
- Methods
- Access Information
- Person Roles and Responsibilities
- Quality Assurance Details
- FAQs

Why do We Need InPort?

Because We Have to Share Data Nationally and Cross-regionally.

Why Do We Need To Share Data?

- FIS
- NOAA Ecosystems Based Management
- Integrated Ocean Observing System (IOOS)
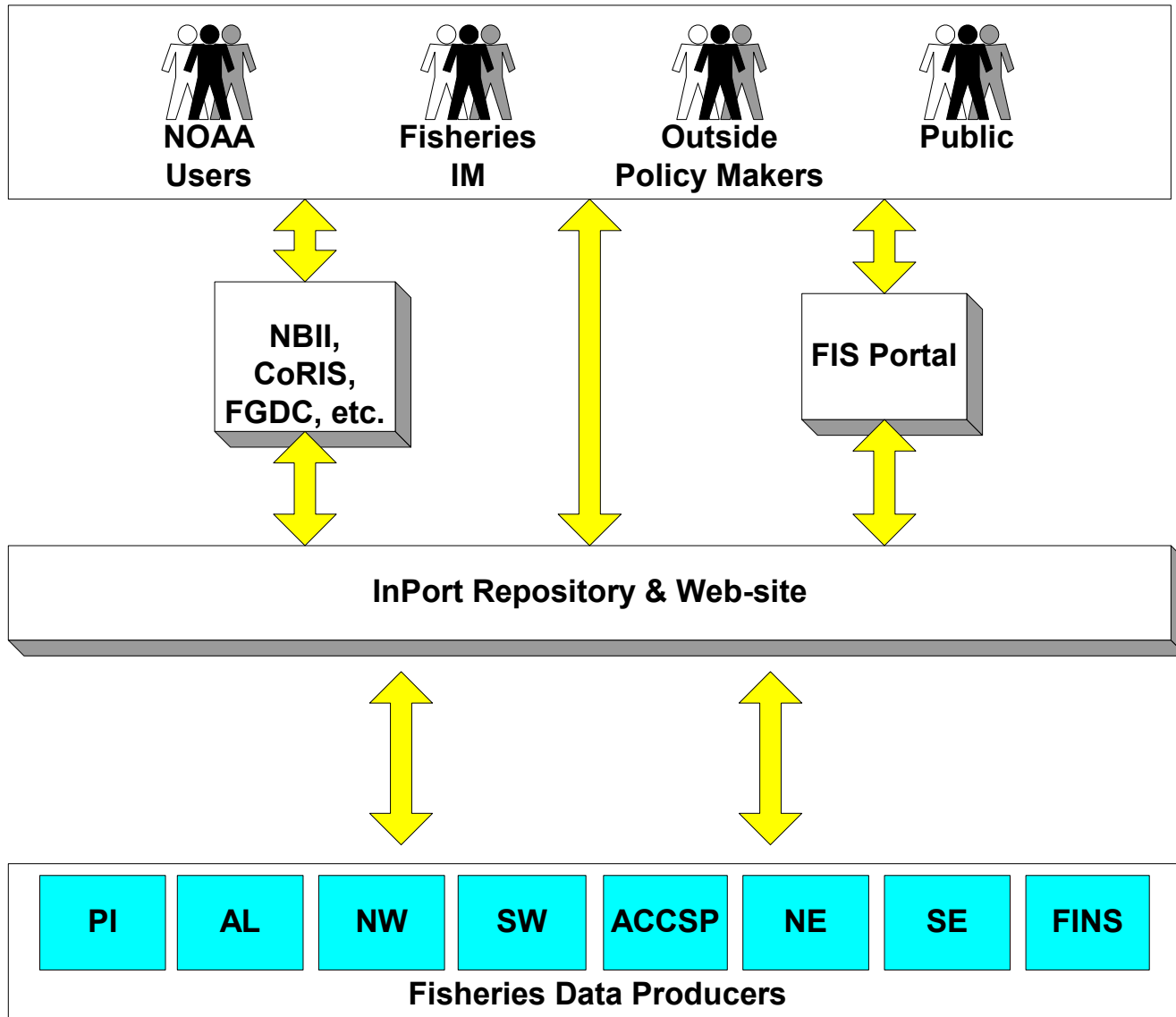- NOAA Data Quality Guidelines & DQA

What Can InPort Do

- Maintain a complete inventory of data
- Make Metadata readily available on-line
- Reduce waste of time and money
- Facilitate the sharing of data and information
- Create accurate FGDC metadata records

Who Needs InPort

- NOAA and NOAA Fisheries Ecosystem Management and Scientific Teams
- Fisheries Scientists, Councils, Administrators
- Fisheries Industry, Partners and Public
- The National Fisheries Information System
- Regional Information Managers

Sharing metadata

NOAA Users — Fisheries IM — Outside Policy Makers — Public

NBII, CoRIS, FGDC, etc.

FIS Portal

InPort Repository & Web-site

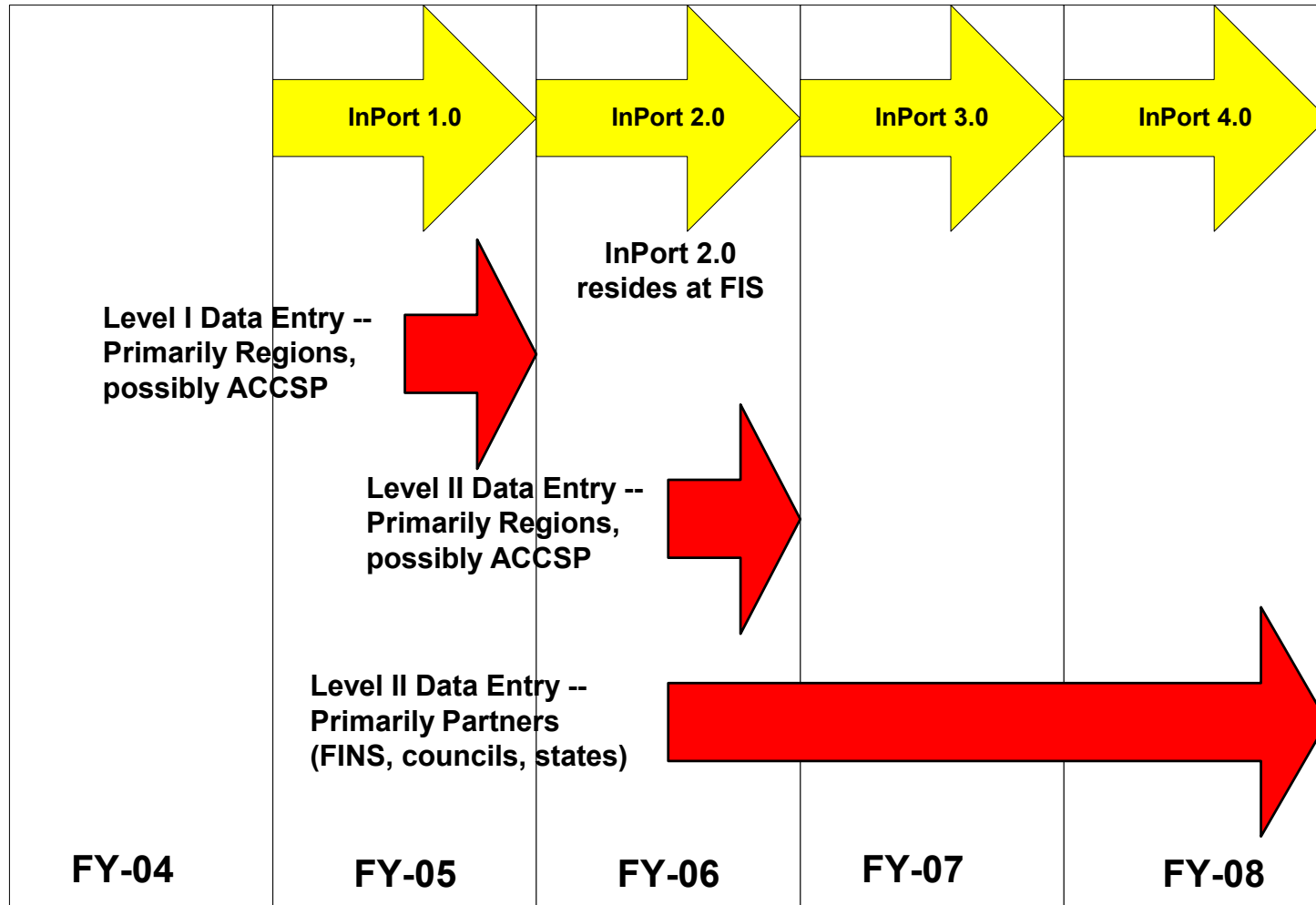| PI | AL | NW | SW | ACCSP | NE | SE | FINS |

Fisheries Data Producers

InPort Roadmap

- **Timeline**
- **Delivery Strategy**
- **InPort Functions**
- **Data Requirements**
- **Technical Overview**
- **Roadmap Issues**

InPort Roadmap & Timeline

InPort 1.0

InPort 2.0

InPort 3.0

InPort 4.0

InPort 2.0 resides at FIS

Level I Data Entry -- Primarily Regions, possibly ACCSP

Level II Data Entry -- Primarily Regions, possibly ACCSP

Level II Data Entry -- Primarily Partners (FINS, councils, states)

FY-04 FY-05 FY-06 FY-07 FY-08

Delivery Strategy

- Phased releases, with limited scope, closely tied to FIS project requirements
  - Limit features to requirements 12-24 months out
  - Expect requirements to change year to year
- Early releases that cater to FIS project requirements
  - Support major tasks (e.g., FIS Portal, Gap Analysis)
  - Give visibility to NOAA Fisheries catalog or inventory of data
- Later releases that cater to FIS Production
  - Integrate InPort more tightly to production systems
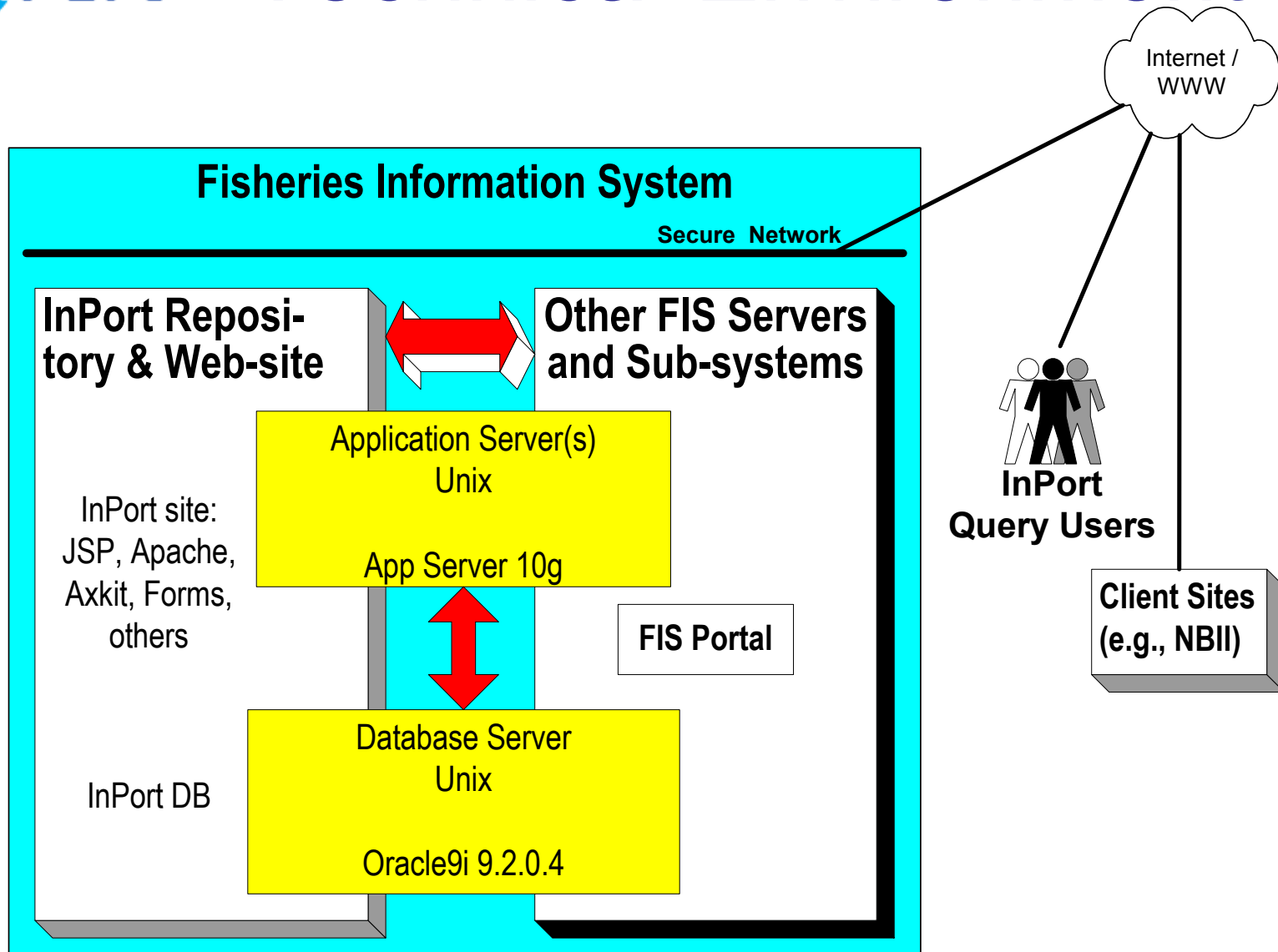 - Look to upstream integration w/ NOAA data systems

Major InPort Functions

- **Planning** – periodic planning of new/revised InPort features; setting/revising service and performance targets
- **Acquiring** – acquiring and managing resources needed to run InPort (e.g., on-site super-users)
- **Administration** – business rules, reference codes, controlled thesauri, user authorization, orgs/people
- **Operations** – entry and publication of metadata; search and query capabilities; data issues tracking and resolution; performance (availability, use) tracking
- **Support** – technical support, training, system issues tracking and resolution
- **Promotion** – promoting Inport to its intended audience
- **Monitoring** – comparing performance to plan

Data Requirements

- Level I (Draft)
  - Data required to meet FY2005 FIS Project Targets
  - What data do we have? Who owns/controls it? Where is it?
  - Projects, data sets, tables, summary collection processes, methods
  - Columns, field, calculation definitions; Data collection specifications (e.g., haulback direction); domains
- Level II (Draft)
  - Data required to meet FY2006 Project Targets
  - How do we collect and process data? How are reports produced?
  - FGDC report requirements

InPort Technical Environment

Internet / WWW

Fisheries Information System

Secure Network

**InPort Reposi-
tory & Web-site**

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**Other FIS Servers
and Sub-systems**

InPort site:
JSP, Apache,
Axkit, Forms,
others

Application Server(s)
Unix

App Server 10g

FIS Portal

InPort DB

Database Server
Unix

Oracle9i 9.2.0.4

**InPort
Query Users**

**Client Sites
(e.g., NBII)**

Roadmap Issues

- Does InPort roadmap conflict with FIS Roadmap time frame and objectives?

- Does the data entry plan support the FIS roadmap?

- Do Level I and Level II data type requirements support the FIS roadmap?

- How do we manage InPort governance?

Development Team

Person		InPort Role
Tina Chang	ST/FIS	FIS Project Manager
Mike Chang	PIC	Web Consultant
Joseph Dane	PIC	Web Developer
Cassio de Sanctus	SEC	FIS Portal Developer
Tom Kagehiro	PIC	Database Designer
Susan Molina	SEC	FIS Portal Project Manager
Jan Pappas	PIC	DBA
Joan Palmer	NEC	FIS SDI Co-chair
Russell Price	PIC	Systems Administrator
Pauli Salmu	PIC	Application Developer
Karen Sender	PIC	InPort Project Manager
Donald Tieman	PIC	RITC
Richard Uyeda	PIC	Network Administrator
Lee Weinberger	SEC/PIC	Applications Developer

Conclusion

- InPort will publish a catalog of fisheries data holdings.

- Fisheries management is changing. We need to share data for FIS and ecosystems mgt to work.

- InPort will support and follow the FIS Roadmap.

- There will be three major catalog entry efforts in FY05, FY06, and FY07.

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